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APPLICATION NO.	I	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/662,040		09/12/2003	Priya Bendale	026471-4005	8322	
30542	7590	10/26/2004		EXAMINER		
FOLEY &	LARDN	ER	NGUYEN, HA T			
P.O. BOX 80278 SAN DIEGO, CA 92138-0278				ART UNIT	PAPER NUMBER	
SAN DILOC), CA)	2150-0270	2812			
				DATE MAILED: 10/26/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Assistant Community		Application No.	Applicant(s)				
		10/662,040	BENDALE ET AL.				
	Office Action Summary	Examiner	Art Unit				
		Ha T. Nguyen	2812				
Period fo	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
THE - External after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPI MAILING DATE OF THIS COMMUNICATION MAILING DATE OF THIS COMMUNICATION SIX (6) MONTHS from the mailing date of this communication period for reply specified above is less than thirty (30) days, a re period for reply is specified above, the maximum statutory perior re to reply within the set or extended period for reply will, by statu reply received by the Office later than three months after the maili ed patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be to ply within the statutory minimum of thirty (30) dad will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDON	imely filed ays will be considered timely. m the mailing date of this communication. IED (35 U.S.C. § 133).				
Status							
1)⊠	Responsive to communication(s) filed on <u>07</u>	September 2004.					
2a)⊠	This action is FINAL . 2b) ☐ Th	is action is non-final.					
3))☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Dispositi	on of Claims						
4)⊠	Claim(s) 1-12 is/are pending in the application	n.					
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)	Claim(s) is/are allowed.						
	☑ Claim(s) <u>1-12</u> is/are rejected.						
· · · · · · · · · · · · · · · · · · ·	Claim(s) is/are objected to.						
8)[_]) Claim(s) are subject to restriction and/or election requirement.						
Applicati	on Papers	,	•				
9)[The specification is objected to by the Examin	er.					
10)	D)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)	The oath or declaration is objected to by the E	examiner. Note the attached Office	e Action or form PTO-152.				
Priority u	ınder 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:							
	1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No							
	3. Copies of the certified copies of the price application from the International Bures	•	ed in this National Stage				
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
Attachmen	t(s)						
1) Notic	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary					
	Date Patent Application (PTO-152)						
	nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08 r No(s)/Mail Date	6) Other:	,				

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DETAILED ACTION

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Notice to applicant

1. Applicants' Response to the Office Action mailed June 7, 2004 has been entered and made of record.

Claim Objections

1a. Claims 1-12 are objected to because of the following informalities: in claim 1, lines 12-13 and claim 9, lines 13-14, the use of "between each of the plurality of electrodes" is improper because the word "between" requires the presence of at least two electrodes on the two sides of the separator not one as indicated by "each", substitution of "each" with -- two adjacent electrodes-- is suggested for clarity. Appropriate correction is required.

Claims 2-8 and 10-12 variously depend from claim 1 or 9, they are objected to for the same reason.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103® and potential 35 U.S.C. 102(f) or (g) prior art under 35 U.S.C. 103(a).

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3. Claims 1-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Aoki et al. (USPN 6222720, hereinafter "Aoki") in view of Amatucci (USPN 6198623).

Referring to Figs. 8-12 and related text, [Re Claim 1] Aoki discloses a method of making an electrode structure for use in a double layer capacitor, comprising the steps forming a plurality of electrodes 31, 32, each of the plurality of electrodes comprising: a current collector plate 31a or 32a, a coating 31b,c or 32b,c formed on a portion of each side of the current collector plate, the coating containing a mixture of carbon powder, a binder and a solvent (see col. 13, lines 14-50); positioning a respective separator 33a or 33b between each of the plurality of electrodes while stacking the plurality of electrodes on top of each other such that the respective separator is juxtaposed against respective coatings of adjacent ones of the plurality of electrodes, wherein the respective separator electrically insulates the adjacent ones of the plurality of electrodes from each other, whereby forming a stack of the plurality of electrodes with a respective separator positioned in between respective ones of the plurality of electrodes; and rolling the electrode stack starting at one end of the electrode stack into a cylindrical structure (see col. 13, line 51col. 14, line 9). But it does not disclose expressly the coating is formed by a secondary coating formed on a primary coating formed on a portion of each side of the current collector plate, the primary coating including conducting carbon powder and a binder. However, the missing limitation is well known in the art because Amatucci discloses this feature (See Example 1). A person of ordinary skill is motivated to modify Aoki with Amatucci to obtain increased specific capacity (see Amatucci, abstract).

[Re Claim 9] The combined teaching of Aoki and Amatucci discloses substantially the limitations of claim 9, as shown above. Aoki also discloses a current collector plate having a length and a width and a thickness; a primary coating formed on a portion of each side the current collector plate, the portion covering an area extending length of the current collector plate and extending a portion of the width of the current collector plate; a stack of the plurality of electrodes having a stack length and a stack width; and rolling the electrode stack starting at one end of the electrode stack along the stack length into a cylindrical structure (see Fig. 8 and col. 4, line 6- col. 5, line 21).

[Re claims 2-3, 5-7, 10-11 and 12] Aoki also discloses electrically coupling together a first set of respective ones of a portion of each current collector plate that do not have the

respective coating formed thereon to form a first terminal; electrically coupling together a second set of respective ones of the portion of each current collector plate that do not have the respective coating formed thereon to form a second terminal; wherein the positioning while stacking steps are performed such that upon rolling the electrode stack, a portion of each current collector plate that does not have a respective coating formed thereon extends from a respective end of the rolled electrode stack; wherein the positioning while stacking steps are performed such that upon rolling the electrode stack, the portion of each current collector plate that does not have the respective coating formed thereon extends from an opposite end of the rolled electrode stack as extends the portion of each adjacent current collector in the electrode stack that does not have the respective coating formed thereon; and smearing together portions of the current collector plates extending from each end of the electrode stack into electrical contact with each other (see Fig. 8 and col. 7, lines 20-39); and

[Re Claim 4] inserting the rolled electrode stack into a capacitor can; coupling the first terminal first capacitor terminal of the capacitor can; coupling the second terminal second capacitor terminal of the capacitor can; saturating the rolled electrode stack in a prescribed electrolytic solution; and sealing the rolled electrode stack and the prescribed electrolytic solution within the capacitor can (see Figs. 8, 12 and col. 5, line 6-col. 8, line 55).

[Re Claim 8] The combined teaching of Aoki and Amatucci does not disclose the use of a conductive coating to a portion of the current collector plates smeared together at each end of the electrode stack. However it would have been obvious for a person of ordinary skill to use a conductive adhesive to connect the collector plates together at each end to ensure better contact between the plates.

Therefore, it would have been obvious to combine Aoki with Amatucci to obtain the invention as specified in claims 1-12.

Response to Arguments

4. In response to applicants' comments, the examiner has clarified her objection, as shown above.

Applicants' arguments with regard to the rejections under 35 U.S.C. 103 have been fully considered, but they are not deemed to be persuasive for at least the following reasons.

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Applicants argued that Aoki discloses a slurry fabricated from four components, different from applicants' claimed secondary coating by the addition of conductive carbon. The examiner disagreed, the use of "including" allows for additional components to be present in the composition. Besides, Aoki discloses the use of a conductive adhesive when sheet-like coating is used (see col. 13, lines 27-440), but it does not specify the composition of the adhesive coating. Amatucci discloses the missing feature. The claim does not require the interpretation of "coating" to be a slurry, therefore, the examiner's interpretation is reasonable and correct. The examiner is to give claims their broadest reasonable interpretation in light of the supporting disclosure See, e.g., In Re Aletz, 893 F.2d 319, 321-22, 13 USPQ2d 1320, 1322 (Fed. Cir. 1989) (see MPEP 2111). In addition to the motivation for combining Aoki with Amatucci stated in the rejection, reduction of internal resistance is another motivation for combining the applied references.

Therefore, the applied references do teach or make obvious all the limitations of the rejected claims.

Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ha Nguyen whose telephone number is (571) 272-1678. The examiner can normally be reached on Monday-Friday from 8:30AM to 6:00PM, except the first Friday of each bi-week. The telephone number for Wednesday is (703) 560-0528.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Neibling, can be reached on (571) 272-1679. The fax phone number for this Group is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-0956.

1/2

Ha Nguyen

Primary Examiner

10-21-04